

Sustainable Value Chain Solutions








Benefit Your Business — and the Environment — With an Optimized, Sustainably Designed Supply Chain

Manufacturers today must balance the need to improve supply chain operations to save money, speed up time to market and remain competitive while satisfying the growing demand from retailers and consumers for environmentally friendly products. In order to strike this balance, companies must adopt green supply chain processes — and a new way of thinking.

ModusLink Global Solutions offers a suite of Sustainable Value Chain Solutions designed to help clients leverage environmentally sound processes and materials. Our cradle-to-cradle approach includes sustainable packaging redesign, network optimization, Greenhouse Gas (GHG) footprinting, recycling and asset disposition. This holistic view of the supply chain enables us to offer a range of sustainable solutions that drive greater labor and energy efficiency and typically lower the total landed cost of a product.

Sustainable Practices Yield Real Results

Through its sustainable work with clients, ModusLink has had a significant impact on the environment. To date, we have eliminated 4,085 metric tons of GHG emissions through our packaging redesign efforts alone. This translates to:

-  672 Cars not driven in one year
-  8,254 Barrels of oil not used in one year
-  1,225 Tons of packaging recycled instead of land filled
-  404,421 Gallons of gas not used for one year
-  471 Houses not using electricity for one year

The 4D Methodology for Product Packaging

Cost-effective, eco-friendly packaging design follows a 4-dimensional methodology of ergonomics, cost, sustainability and logistics.

ERGONOMICS

- Design for easier assembly
- Design for a supreme point-of-purchase and out-of-box experience

COST

- Reduce materials where possible
- Use cost-effective materials

SUSTAINABILITY

- 7Rs concept (Remove, Reduce, Recycle, Renew, Revenue, Read)
- Determine CO₂ footprint via ECRM scorecard

LOGISTICS

- Reduce empty space and size for pallet maximization and freight reduction
- Reduce packaging while still protecting the product

SUSTAINABLE VALUE CHAIN SOLUTIONS

ModusLink evaluates your organization's carbon footprint using a complex methodology along with a solution set to reduce GHG emissions, increase the use of recyclable materials and minimize the amount of product and components sent to landfills.

We can perform ...

Optimized Configuration, analyzing critical operating variables and physical supply costs — and the trade-offs among them — to identify the best time and geographic location to perform final configuration, packaging and distribution of products.

Sustainable Packaging Design, allowing you to rethink packaging priorities with a focus on compact, eco-friendly designs made of recyclable inks and materials with little or no plastic. ModusLink has relationships with key suppliers and experience determining which combination of material type, size and weight is going to provide the greatest cost savings.

GHG Footprinting, measuring and analyzing trade-offs in the value chain, like carbon emissions for logistics and all GHG emissions for operational activities. This enables us to recommend a sustainability program that fits your specific needs and geography.



Value Recovery to help maximize the value of returned and excess inventory by harvesting working parts and recycling non-value parts to keep product out of landfills. We also offer an online disposition platform to sell repaired, refurbished and excess inventory in a controlled business-to-business environment, as well as an e-tail site, www.techforless.com, to sell remanufactured technology products.

Repair Services to harvest and re-use working components and safely dispose of environmentally hazardous materials. If a product is too damaged to be repaired, we segregate the byproducts reusing the valuable components and sending hazardous waste to an EPA-certified vendor.

e-Scrap Services to dispose of toxic components from consumer electronics like TVs and cell phones. This aftermarket service helps lessen the environmental impact of electronic waste.



Defining Sustainable Standards

ModusLink is committed to creating sustainable value chains and is helping to define standards through association with groups like:

- The Greener Package Advisory Board and Expert Network
- The Walmart Sustainable Value Network
- The Sustainable Packaging Coalition
- The U.S. Delegation for ISO Standards Development (TC122/SC4 packaging and the environment)



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